

# ABHIRAG AWASTHI

## PERSONAL INFORMATION

*website*      [abhirag.in](http://abhirag.in)  
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## EDUCATION

*Bachelor of Technology*      2008-2012      Dhirubhai Ambani Institute of Information and Communication Technology  
Specialized in Information and Communication Technology  
*Selected Coursework*         Data Structures, Introduction to Algorithms, Systems Software, Computer Networks, Software Engineering, Probability & Statistics, Stochastic Simulation  
*GPA*                                 7.5/10

## LANGUAGES

*Intermediate Proficiency*      Python, JavaScript, Clojure, Elixir, C#  
*Basic Proficiency*                 Haskell, F#, GML, HTML, CSS, L<sup>A</sup>T<sub>E</sub>X

## TOOLS

*Web Technologies*                 React, Redux, Django, Flask  
*Data Analysis*                     NumPy, Pandas, Matplotlib, Jupyter Notebook  
*Version Control*                     Git  
*Game Engine*                         GameMaker  
*Code Editor*                         Emacs, Visual Studio, VS Code  
*OS*                                         Windows, Linux (NixOS, Manjaro, Ubuntu)

## EXPERIENCE

*Systems Software Engineer*      2012-2016      Hewlett-Packard  
· Maintained core firmware services like Power Management, Firmware Installation Management, Reset, Backup/Restore, Time  
· Increased the fault tolerance of firmware upgrades and rollbacks by reducing the probability of boot partition corruption caused by power failure  
· Exposed system calls as safe to consume APIs and SNMP OIDs  
· Acted as the first point of contact for crash dump analysis  
· Resolved defects faced by customers with multi-million dollar contracts  
  
*Founder / Programmer*             2016-2018      Mockint  
· Designed and developed <https://mockint.in>

## PROJECTS

*Professional*                         \_\_\_\_\_  
2012 · **Jedi Firmware** (C#, .NET Compact Framework, WinDbg)  
    · Firmware for Hewlett-Packard LaserJet printers  
2016

- 2016 · [Mockint](#) (Python, Django, JavaScript, Microsoft Bot Framework)
- Platform to prepare for technical interviews
- 2018

*Personal*

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- 2016 · [Interactive Résumé](#) (GameMaker, GML)  
Interactive version of my résumé in the form of a platformer game
- [Résumé API](#) (Python, Flask, AWS Lambda, Zappa)  
My résumé as a serverless REST API
- 2017 · [Résumé Plot](#) (Python, Matplotlib, Jupyter Notebook)  
My résumé as a plot of Tupper's self-referential formula
- [Interface to Indian Railways](#) (Python, Pandas, Folium)  
Visualization of route and live running status of trains in India
- [We are in this together](#) (JavaScript, Express, Socket.IO)  
Web experiment to visualize the number of active website users in real-time
- [Résumé over SMS](#) (Python, Django, Twilio)  
My résumé accessible over a SMS keyword response menu
- [Normal Distribution Joyplots](#) (Python, Seaborn, Jupyter Notebook)  
Visualizing location-scale transformation of standard normal distribution using joyplots
- [Visualization of Retail Prices](#) (Python, Matplotlib, Jupyter Notebook)  
Visualizing retail prices of essential commodities in India
- [ASCII art as a service](#) (JavaScript, Express)  
REST API for ASCII art
- 2018 · [Literate Ray Tracer](#) (Clojure, Emacs)  
Ray tracer written in literate programming style
- [Tachyons CSS Playground](#) (JavaScript, React)  
Web App for interactive web design
- [Haxorville](#) (Type Design)  
A quirky monospaced font designed for programmers
- [Visualization of International Trips](#) (JavaScript)  
Visualizing international trips made by the Indian Prime Minister

RESEARCH

2014 Using Web Page Segmentation to Mitigate Negative Effects of a Subpar Web Design on Print-Quality

An attempt towards improving the typography and signal to noise ratio of printed web pages

*(Intellectual  
Property of  
Hewlett-Packard)*

December 10, 2018